

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/062,113

1646

DATE: 08/05/1999  
TIME: 12:18:41

INPUT SET: S32785.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: GOTO, Masaaki  
6 TSUDA, Eisuke  
7 MOCHIZUKI, Shin'ichi  
8 YANO, Kazuki  
9 KOBAYASHI, Fumie  
10 SHIMA, Nobuyuki  
11 YASUDA, Hisataka  
12 NAKAGAWA, Nobuaki  
13 MORINAGA, Tomonori  
14 UEDA, Masatsugu  
15 HIGASHIO, Kanji  
16  
17 (ii) TITLE OF INVENTION: Novel Proteins and Methods for Producing  
18 the Proteins  
19  
20 (iii) NUMBER OF SEQUENCES: 108  
21  
22 (iv) CORRESPONDENCE ADDRESS:  
23 (A) ADDRESSEE: Testa, Hurwitz & Thibault  
24 (B) STREET: 125 High St.  
25 (C) CITY: Boston  
26 (D) STATE: MA  
27 (E) COUNTRY: USA  
28 (F) ZIP: 02110  
29  
30 (v) COMPUTER READABLE FORM:  
31 (A) MEDIUM TYPE: Floppy disk  
32 (B) COMPUTER: IBM PC compatible  
33 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
34 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
35  
36 (vi) CURRENT APPLICATION DATA:  
37 (A) APPLICATION NUMBER: US 09/062,113  
38 (B) FILING DATE: 17-APR-1998  
39 (C) CLASSIFICATION:  
40  
41 (vii) PRIOR APPLICATION DATA:  
42 (A) APPLICATION NUMBER: JP 54977/1995  
43 (B) FILING DATE: 20-FEB-1995  
44  
45 (vii) PRIOR APPLICATION DATA:  
46 (A) APPLICATION NUMBER: JP 207508/1995

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47 (B) FILING DATE: 21-JUL-1995  
48  
49 (vii) PRIOR APPLICATION DATA:  
50 (A) APPLICATION NUMBER: PCT/JP96/00374  
51 (B) FILING DATE: 20-FEB-1996  
52  
53 (vii) PRIOR APPLICATION DATA:  
54 (A) APPLICATION NUMBER: US 08/915,004  
55 (B) FILING DATE: 20-FEB-1996  
56  
57 (viii) ATTORNEY/AGENT INFORMATION:  
58 (A) NAME: MOORE, Ronda P.  
59 (B) REGISTRATION NUMBER: 44,244  
60 (C) REFERENCE/DOCKET NUMBER: FJN-060DV  
61  
62 (ix) TELECOMMUNICATION INFORMATION:  
63 (A) TELEPHONE: (617) 248-7000  
64 (B) TELEFAX: (617) 248-7100  
65  
66  
67 (2) INFORMATION FOR SEQ ID NO:1:  
68  
69 (i) SEQUENCE CHARACTERISTICS:  
70 (A) LENGTH: 6 amino acids  
71 (B) TYPE: amino acid  
72 (C) STRANDEDNESS:  
73 (D) TOPOLOGY: linear  
74  
75 (ii) MOLECULE TYPE: peptide  
76  
77  
78 (ix) FEATURE:  
79 (A) NAME/KEY: Peptide  
80 (B) LOCATION: 1..6  
81 (D) OTHER INFORMATION: /note= "(an internal amino acid  
82 sequence of the protein)"  
83  
84  
85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
86  
87 Xaa Tyr His Phe Pro Lys  
88 1 5  
89  
90 (2) INFORMATION FOR SEQ ID NO:2:  
91  
92 (i) SEQUENCE CHARACTERISTICS:  
93 (A) LENGTH: 14 amino acids  
94 (B) TYPE: amino acid  
95 (C) STRANDEDNESS:  
96 (D) TOPOLOGY: linear  
97  
98 (ii) MOLECULE TYPE: peptide  
99

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100  
101 (ix) FEATURE:  
102 (A) NAME/KEY: Peptide  
103 (B) LOCATION: 1..14  
104 (D) OTHER INFORMATION: /note= "(an internal amino acid  
105 sequence of the protein)"  
106  
107  
108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
109  
110 Xaa Gln His Ser Xaa Gln Glu Gln Thr Phe Gln Leu Xaa Lys  
111 1 5 10  
112  
113 (2) INFORMATION FOR SEQ ID NO:3:  
114  
115 (i) SEQUENCE CHARACTERISTICS:  
116 (A) LENGTH: 12 amino acids  
117 (B) TYPE: amino acid  
118 (C) STRANDEDNESS:  
119 (D) TOPOLOGY: linear  
120  
121 (ii) MOLECULE TYPE: peptide  
122  
123  
124 (ix) FEATURE:  
125 (A) NAME/KEY: Peptide  
126 (B) LOCATION: 1..12  
127 (D) OTHER INFORMATION: /note= "(an internal amino acid  
128 sequence of the protein)"  
129  
130  
131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
132  
133 Xaa Ile Arg Phe Leu His Ser Phe Thr Met Tyr Lys  
134 1 5 10  
135  
136 (2) INFORMATION FOR SEQ ID NO:4:  
137  
138 (i) SEQUENCE CHARACTERISTICS:  
139 (A) LENGTH: 380 amino acids  
140 (B) TYPE: amino acid  
141 (C) STRANDEDNESS:  
142 (D) TOPOLOGY: linear  
143  
144 (ii) MOLECULE TYPE: protein  
145  
146  
147 (ix) FEATURE:  
148 (A) NAME/KEY: Protein  
149 (B) LOCATION: 1..380  
150 (D) OTHER INFORMATION: /note= "(OCIF protein without  
151 signal peptide)"  
152

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153
154 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
155
156   Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp Glu Glu Thr Ser His
157   1              5              10              15
158
159   Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr Tyr Leu Lys Gln His
160           20              25              30
161
162   Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro Cys Pro Asp His Tyr
163           35              40              45
164
165   Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys Leu Tyr Cys Ser Pro
166           50              55              60
167
168   Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu Cys Asn Arg Thr His
169   65              70              75              80
170
171   Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe
172           85              90              95
173
174   Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala
175           100             105             110
176
177   Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe
178           115             120             125
179
180   Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn
181           130             135             140
182
183   Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His
184   145             150             155             160
185
186   Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile
187           165             170             175
188
189   Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr
190           180             185             190
191
192   Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly
193           195             200             205
194
195   Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser
196           210             215             220
197
198   Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn
199   225             230             235             240
200
201   Lys Asp Gln Asp Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys
202           245             250             255
203
204   Glu Asn Ser Val Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu
205           260             265             270

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206
207   Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala
208           275           280           285
209
210   Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile
211           290           295           300
212
213   Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr
214   305           310           315           320
215
216   Leu Lys Gly Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe
217           325           330           335
218
219   Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His
220           340           345           350
221
222   Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile
223           355           360           365
224
225   Gly Asn Gln Val Gln Ser Val Lys Ile Ser Cys Leu
226           370           375           380
227

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(2) INFORMATION FOR SEQ ID NO:5:

```

228
229
230   (i) SEQUENCE CHARACTERISTICS:
231       (A) LENGTH: 401 amino acids
232       (B) TYPE: amino acid
233       (C) STRANDEDNESS:
234       (D) TOPOLOGY: linear
235
236   (ii) MOLECULE TYPE: protein
237
238
239   (ix) FEATURE:
240       (A) NAME/KEY: Protein
241       (B) LOCATION: 1..380
242       (D) OTHER INFORMATION: /note= "(OCIF protein)"
243
244   (ix) FEATURE:
245       (A) NAME/KEY: Peptide
246       (B) LOCATION: -21..0
247       (D) OTHER INFORMATION: /note= "(signal peptide)"
248
249
250   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
251
252   Met Asn Asn Leu Leu Cys Cys Ala Leu Val Phe Leu Asp Ile Ser Ile
253       -20           -15           -10
254
255   Lys Trp Thr Thr Gln Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp
256       -5           1           5           10
257
258   Glu Glu Thr Ser His Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr

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**SEQUENCE VERIFICATION REPORT**  
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Original Text